

**Listing of the Claims:**

1. (CURRENTLY AMENDED) A nucleic acid delivery system comprising:
  - (1) a fusion protein, wherein said fusion protein is prepared by recombinant techniques and contains:
    - (a) an antibody targeting moiety, which will specifically bind to a site on a target cell, and
    - (b) a binding moiety which will bind to a nucleic acid segment, and
  - (2) the nucleic acid segment containing a nucleic acid sequence of interest, wherein the fusion protein has one amino terminus and one carboxyl terminus.
2. (CANCELLED)
3. (CURRENTLY AMENDED) A nucleic acid delivery system comprising:
  - (1) a fusion protein, wherein said fusion protein is prepared by recombinant techniques and contains:
    - (a) an antibody targeting moiety, which will specifically bind to a site on a target cell, The nucleic acid delivery system of claim 1, wherein the antibody is an antibody to a viral envelope protein, a cellular receptor, or an extracellular domain of an activated receptor, and
    - (b) a binding moiety which will bind to a nucleic acid segment, and
  - (2) the nucleic acid segment containing a nucleic acid sequence of interest.
4. (CURRENTLY AMENDED) A nucleic acid delivery system comprising:
  - (1) a fusion protein, wherein said fusion protein is prepared by recombinant techniques and contains:
    - (a) an antibody targeting moiety, which will specifically bind to a site on a target cell, The nucleic acid delivery system of claim 1, wherein the antibody is a single chain antibody, a Fab portion of an antibody, or a